

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1

of 5

Complete if Known

Application Number	10/625,264
Filing Date	July 23, 2003
First Named Inventor	Garrett
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	RAMB-01048US1

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
JZ		US- 3,646,329*	02-29-1972	Yoshino et al.	
JZ		US- 4,192,005*	03-04-1980	Kurtz	
JZ		US- 4,315,210*	02-09-1982	Michel et al.	
JZ		US- 4,329,600*	05-11-1982	Stewart	
JZ		US- 4,414,480*	11-08-1983	Zasio	
JZ		US- 4,549,124*	10-22-1985	Beier	
JZ		US- 4,680,487*	07-14-1987	Kobayashi	
JZ		US- 4,691,127*	09-01-1987	Huizer	
JZ		US- 4,707,620*	11-17-1987	Sullivan et al.	
JZ		US- 4,715,003*	12-22-1987	Keller et al.	
JZ		US- 4,719,369*	01-12-1988	Asano et al.	
JZ		US- 4,728,881*	03-01-1988	Evans et al.	
JZ		US- 4,765,188*	08-23-1988	Krechmery et al.	
JZ		US- 4,779,013*	10-18-1988	Tanaka	
JZ		US- 4,859,877*	08-22-1989	Cooperman et al.	
JZ		US- 5,568,068*	10-22-1996	Ota et al.	
JZ		US- 5,596,285*	01-21-1997	Marbot et al.	
JZ		US- 5,838,177*	11-17-1998	Keeth	
JZ		US- 5,977,797*	Nov. 2, 1999	Gasparik	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁵
		Country Code ³ *Number ⁴ *Kind Code ⁵ (if known)				
JZ		EP0482392*	02-1991		_____	

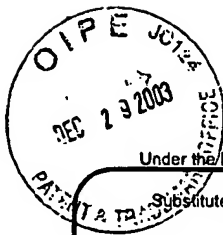
Examiner Signature	Jeffrey Zweizig	Date Considered	7/19/04
--------------------	-----------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

* = COPY NOT SUBMITTED BECAUSE IT WAS SUBMITTED IN PRIOR APPLICATION NO. 10/230,931, filed 8/29/2002, which is a continuation of Application No. 09/954,561, filed 9/12/2001.



Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet **2**

of **5**

C mplete if Kn wn

Application Number	10/625,264
Filing Date	July 23, 2003
First Named Inventor	Garrett
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	RAMB-01048US1

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
JZ		US- 4,860,198*	08-22-1989	Takemaka	_____
JZ		US- 4,894,562*	01-16-1990	Cavaliere et al.	_____
JZ		US- 4,939,389*	07-3-1990	Cox et al.	_____
JZ		US- 4,958,520*	09-25-1990	Trommler et al.	_____
JZ		US- 4,967,105*	10-30-1990	Akamatsu et al.	_____
JZ		US- 4,977,333*	12-11-1990	Suzuki et al.	_____
JZ		US- 4,992,724*	02-12-1991	Hisanaga et al.	_____
JZ		US- 5,023,488*	06-11-1991	Gunning et al.	_____
JZ		US- 5,024,101*	06-18-1991	Tanaka et al.	_____
JZ		US- 5,045,730*	09-03-1991	Cooperman et al.	_____
JZ		US- 5,045,832*	09-03-1991	Tam	_____
JZ		US- 5,055,715*	10-8-1991	Inaba	_____
JZ		US- 5,075,569*	12-24-1991	Branson	_____
JZ		US- 5,081,379*	01-14-1992	Korteling	_____
JZ		US- 5,097,148*	03-17-1992	Gabara	_____
JZ		US- 6,072,747*	06-06-2000	Yoon	_____
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ *Number ⁴ *Kind Code ⁵ (if known)				

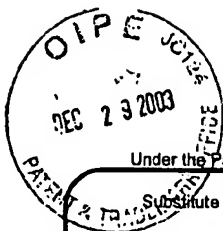
Examiner Signature	<i>Jeffrey Zweizig</i>	Date Considered	<i>7/19/04</i>
--------------------	------------------------	-----------------	----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

* = COPY NOT SUBMITTED BECAUSE IT WAS SUBMITTED IN PRIOR APPLICATION NO. 10/230,931, filed 8/29/2002, which is a continuation of Application No. 09/954,561, filed 9/12/2001.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet **3**of **5****Complete if Known**

Application Number	10/625,264
Filing Date	July 23, 2003
First Named Inventor	Garrett
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	RAMB-01048US1

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
JZ		US- 5,107,230*	04-21-1992	King	_____
JZ		US- 5,177,130*	05-26-1992	Shoji	_____
JZ		US- 5,118,971*	06-02-1992	Schenck	_____
JZ		US- 5,121,064*	06-09-1992	Eller	_____
JZ		US- 5,134,311*	07-28-1992	Biber et al.	_____
JZ		US- 5,165,046*	11-17-1992	Hesson	_____
JZ		US- 5,185,538*	02-09-1993	Kondoh et al.	_____
JZ		US- 5,194,765*	03-16-1993	Dunlop et al.	_____
JZ		US- 5,206,546*	04-27-1993	Usami	_____
JZ		US- 5, 237,214*	08-17-1993	Usami	_____
JZ		US- 5,254,883*	10-19-1993	Horowitz et al.	_____
JZ		US- 5,296,756*	03-22-1994	Patel et al.	_____
JZ		US- 5,387,824*	02-07-1995	Michelsen	_____
JZ		US- 5,457,407*	10-10-1995	Shu et al.	_____
JZ		US- 5,546,042*	08-13-1996	Tedrow et al.	_____
JZ		US- 6,442,644	08-27-2002	Gustavson et al.	_____
JZ		US- 6,009,487	12-28-1999	Davis et al.	_____
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner
Signature

Jeffrey Zweizig

Date
Considered

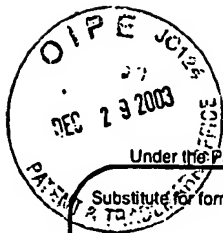
7/19/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

* = COPY NOT SUBMITTED BECAUSE IT WAS SUBMITTED IN PRIOR APPLICATION NO. 10/230,931, filed 8/29/2002, which is a continuation of Application No. 09/954,561, filed 9/12/2001.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Applicant Number	10/625,264
		Filing Date	July 23, 2003
		First Named Inventor	Garrett
		Art Unit	Unknown
		Examiner Name	Unknown
Sheet 4	of 5	Attorney Docket Number	RAMB-01048US1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JZ		*Reynolds, C.B., "Analysis and Guidelines for High-Speed VLSI System Interconnections," IEEE 1988 Custom Integrated Circuits Conference, pp. 23.5.1-23.5.4.	
JZ		*Leung, Kam, "Controlled Slew Rate Output Buffer," IEEE 1988 Custom Integrated Circuits Conference, pp. 5.5.1-5.5.4.	
JZ		*Knight, Thomas F. Jr., and Krymm, Alexander, "A Self-Terminating Low-Voltage Swing CMOS Output Driver," Journal of Solid State Circuits, Vol.23, No.2, Apr. 1998, pp. 457-464.	
JZ		*Cox, Dennis T., et al., "VLSI Performance Compensation for Off-Chip Drivers and Clock Generation," IEEE 1989 Custom Integrated Circuits Conf., pp.14.3.1-14.3.4.	
JZ		*Douseki, Takakuni and Ohmori, Yasuo, "BiCMOS Circuit Technology for a High-Speed SRAM," IEEE Journal of Solid-State Circuits, vol. 23, No. 1, Feb. 1988, pp. 68-73.	
JZ		**"Driver with Noise-Dependent Switching Speed Control," IBM Technical Disclosure Bulletin, Vol. 29, No. 3, Aug. 1986, IBM Corporation, pp. 1243-1244.	
JZ		*Biber, Alice I. "The Design of an Application Specific Interface Drive for a High Capacitive Load," Masters Thesis at the Massachusetts Inst. of Technology, Dec. 1989.	
JZ		*Raver, Norman, "Open-Loop Gain Limitations for Push-Pull Off-Chip Drivers," Journal of Solid-State Circuits, Vol. SC-22, No. 2, Apr. 1987, pp.145-150.	
JZ		*Senbon, T. and Hanabuchi, F., Instrumentation Systems: Fundamentals and Applications, Chapter 3: Detection and Conversion of Industrial Variables; 1991, 11 pages.	
JZ		*Johnson, C. and Richeh, H, "Highly Accurate Resistance Deviation to Frequency Converter with Programmable Sensitivity and Resolution," IEEE vol. IM-35, No.2, Jun.1986, 4 pages.	

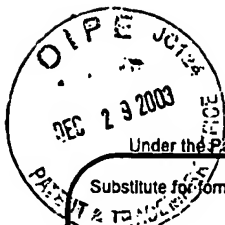
Examiner Signature	Jeffrey Zweizig	Date Considered	7/19/04
--------------------	-----------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

* = COPY NOT SUBMITTED BECAUSE IT WAS SUBMITTED IN PRIOR APPLICATION NO. 10/230,931, filed 8/29/2002, which is a continuation of Application No. 09/954,561, filed 9/12/2001.



PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/625,264
Filing Date	July 23, 2003
First Named Inventor	Garrett
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	RAMB-01048US1

Sheet	5	of	5
-------	---	----	---

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JZ		*Sasaki, H., et al., "High Precision Automated Resistance Measurement Using A Modified Wheatstone Bridge," CPEM '88 Digest, Japan, 1988, 1 page.	
JZ		*Sasaki, H., et al., "Measurement of the Pressure Dependence of Standard Resistors Using A Modified Wheatstone Bridge," Trans. IEE of Japan, vol. 109, No. 1/2, Jan./Feb. 1989, 6 pages.	
JZ		*Sasaki, H., et al., "Automated Measurement System for 1-OMEGA Standard Resistors Using A Modified Wheatstone Bridge," IEEE Trans. on Instr. and Measurement, vol. 40, No. 2, Apr. '91, p. 274-277.	
JZ		*Sasaki, H., et al., "A Modified Wheatstone Bridge for High-Precision Automated Resistance Measurement," IEEE Trans. on Instr. and Measurement, vol. 26, No. 2, Dec. 1987, p. 947-949.	
JZ		*Armstrong, David H., "Pitfalls in Testing Digital ASIC Devices," IEEE 1987 Custom Integrated Circuits Conference, pp. 573-578.	
JZ		*Mathews, John W. and Erdelyi, Charles K. "Power Supply Voltages for Future VLSI," IEEE 1986 Custom Integrated Circuits Conference, pp. 149-152.	
JZ	✓	Gillingham, Peter, MOSAID Technologies, Inc., "SLDRAM Architectural and Functional Overview", 1997 SLDRAM Consortium, 29 Aug. 1997, pp. 1-14.	
JZ	✓	Gillingham, Peter, and Vogley, Bill, "SLDRAM" High-Performance, Open-Standard Memory", 1997 IEEE, November/December 1997, pp. 29-39	
JZ	✓	Draft 0.99 IEEE P1596.7-199X, "Draft Standard for A High-Speed Memory Interface (SyncLink)", Oct. 14, 1996 IEEE	

Examiner Signature	Jeffrey Zweig	Date Considered	7/19/04
--------------------	---------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

* = COPY NOT SUBMITTED BECAUSE IT WAS SUBMITTED IN PRIOR APPLICATION NO. 10/230,931, filed 8/29/2002, which is a continuation of Application No. 09/954,561, filed 9/12/2001.